Duke, Daphne

From:

Bovd, Jocelyn

Sent:

Wednesday, October 28, 2020 6:24 AM

To:

PSC Contact

Cc: Subject: Duke, Daphne; Crocker, Virginia; Schmieding, Janice Fwd: [External] Incident Report - Spartanburg, SC

Attachments:

SC_ORS_2020-09-21_Spartanburg.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Berry, Farris L" <Farris.Berry@duke-energy.com>

Date: October 27, 2020 at 4:08:20 PM EDT

To: "Eustace, Johnny" <jeustace@ors.sc.gov>, "Boyd, Jocelyn" <Jocelyn.Boyd@psc.sc.gov>

Cc: "Weisker, Brian R" <Brian.Weisker@duke-energy.com>, "Woody, Brian C" <Brian.Woody@dukeenergy.com>, "Franklin, Giorgina L" <Giorgina.Franklin@duke-energy.com>, "Henderson, Milton J" <Milton.Henderson@duke-energy.com>, "Barkley, Bruce P." <Bruce.Barkley@duke-energy.com>,

"Powers, Pia K" <Pia.Powers@duke-energy.com>, "Ransome, Christopher"

<Christopher.Ransome@duke-energy.com>

Subject: [External] Incident Report - Spartanburg, SC

Mr. Eustace and Ms. Boyd,

Please find attached a copy of the incident report for an event that occurred in Spartanburg, SC on September 21, 2020.

Thank you.

Farris Berry | Manager - Pipeline Safety | Duke Energy

comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displacement valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection information is estimated to be approximately 10 hours per response, including the time for reviewing instructions, gathering the data needed, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regard this burden estimate or any other aspect of this collection of information of information are mandatory. Send comments regard this burden estimate or any other aspect of this collection of information of information are mandatory. Send comments regard the set of this collection of information of information to: Information Collecticance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590. INSTRUCTIONS IMPORTANT: Please read the separate instructions for completing this form before you begin. They clarify information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at https://www.phmsa.dot.gov/forms/pipeline-forms. PART A – KEY REPORT INFORMATION Report Type: (select all that apply)					
INCIDENT REPORT - GAS DISTRIBUTION Report Date 10/27/2020 No. (DOT Use Only)	\$100,000 for each violation for each d	ay that such violation persists e			
A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failucomply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displace current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection for this information is 2137-0522. Public reporting for this collection formation is estimated to be approximately 10 hours per response, including the time for reviewing instructions, gathering the data needed, completing and reviewing the collection of information. All responses to this collection of reviewing instructions, gathering the data needed, completing the collection of information. All responses to this collection of information are mandatory. Send comments regar this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collectionary Collection of Information and Collection of Information are mandatory. Send comments regar this burden to: Information Collection of Information are provided in the collection of Information including suggestions for reducing this burden to: Information Collection and Collection of Information are analysis of the Instructions of the Collection of Information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at https://www.phmsa.dot.gov/forms/pipeline-forms. PART A – KEY REPORT INFORMATION Report Type: (select all that apply) Original Supplemental	U.S. Department of Transportation Pipeline and Hazardous Materials			No.	
Important: Please read the separate instructions for completing this form before you begin. They clarify information requested and provide specific examples. If you do not have a copy of the instructions, you can obtate one from the PHMSA Pipeline Safety Community Web Page at https://www.phmsa.dot.gov/forms/pipeline-forms . PART A – KEY REPORT INFORMATION Report Type: (select all that apply) □ Original □ Supplemental ☑ Final Last Revision Date 1. Operator's OPS-issued Operator Identification Number (OPID): 15518 2. Name of Operator: 3. Address of Operator: 3.4720 Piedmont Natural Gas 3.b Charlotte (City) 3.c State: NC 3.d Zip Code: 28210 4. Local time (24-hr clock) and date of the incident: 6. National Response Center Report Number: 11:10 9 / 21 / Day Year 5. Local time (24-hr clock) and date of initial telephonic report to the 7. Local time (24-hr clock) and date of initial telephonic report to the	A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection of information is estimated to be approximately 10 hours per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.				
Last Revision Date 1. Operator's OPS-issued Operator Identification Number (OPID):	Important: Please read information requested and	provide specific exam	ples. If you do not have a copy	of the instructions, you can obtain	
1. Operator's OPS-issued Operator Identification Number (OPID):	PART A - KEY REPORT INFOR	Report Ty	ype: (select all that apply)	☐ Supplemental	
2. Name of Operator: Piedmont Natural Gas 3. Address of Operator: 3.a 4720 Piedmont Natural Gas (Street Address) 3.b Charlotte 3.c State: NC 3.d Zip Code: 28210 4. Local time (24-hr clock) and date of the Incident: 11:10 9 / 21 / 2020 Hour Month Day Year 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the	Last Revision Date				
3. Address of Operator: 3.a 4720 Piedmont Natural Gas Street Address) 3.b Charlotte 3.c State: NC 3.d Zip Code:	Operator's OPS-issued Operator Identification Number (OPID): 15518				
3.a 4720 Piedmont Natural Gas (Street Address) 3.b Charlotte 3.c State: NC (City) 3.d Zip Code: 28210 4. Local time (24-hr clock) and date of the Incident: 11:10 9 / 21 / 2020 Year 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the	Biodescat Natural Occ				
3.b Charlotte 3.c State: NC (City) 3.d Zip Code: 28210 4. Local time (24-hr clock) and date of the Incident: 11:10 9 / 21 / 2020 Year 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the	3.a 4720 Piedmont Natural Gas				
3.c State: NC City 3.d Zip Code: 28210 4. Local time (24-hr clock) and date of the Incident: 6. National Response Center Report Number: 11:10 9 / 21 / 2020 Year 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the		ess)			
4. Local time (24-hr clock) and date of the Incident: 11:10 9 / 21 / 2020 Hour 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the	(City)	· ·			
11:10 9 / 21 / 2020 Hour Day Year 5. Location of Incident: 7. Local time (24-hr clock) and date of initial telephonic report to the	3.d Zip Code:28210				
7. Local time (24-hr clock) and date of initial telephonic report to the			6. National Response Center	Report Number :	
5 a 311 Austin Street National Response Center:	244 A	ustin Street	7. Local time (24-hr clock) an National Response Cente		
5.a Stradsun Street (Street Address or location description)	(Street Address or	location description)			
(City)					
5.c Spartanburg (County or Parish)					
5.d State: SC	5.d State: SC				
·	5.f Latitude: 34.949310				
	Longitude:82.949999				

8. Incident resulted from: X	
9. Gas released : (select only one, based on predominant volume released in the last selection of the last sel	eased)
10. Estimated volume of gas released:	Thousand Cubic Feet (MCF)
11. Were there fatalities? Yes No If Yes, specify the number in each category: 11.a Operator employees 11.b Contractor employees	12. Were there injuries requiring inpatient hospitalization? Yes No If Yes, specify the number in each category: 12.a Operator employees 12.b Contractor employees
working for the Operator 11.c Non-Operator emergency responders	working for the Operator 12.c Non-Operator emergency responders
11.d Workers working on the right-of-way, but NOT associated with this Operator	12.d Workers working on the right-of-way, but NOT associated with this Operator
11.e General public	12.e General public
11.f Total fatalities (sum of above) 0	12.f Total injuries (sum of above)0
13. Was the pipeline/facility shut down due to the incident? ☐ Yes ☒ No ⇔ Explain:	
If Yes, complete Questions 13.a and 13.b: (use local time, 24-hi	r
clock) 13.a Local time and date of shutdown	//
13.b Local time pipeline/facility restarted Hour	Month Day Year Still shut down* Month Day Year (*Supplemental Report required)
14. Did the gas ignite?	
15. Did the gas explode? Yes No	
16. Number of general public evacuated:	
17. Time sequence (use local time, 24-hour clock):	
17.a Local time operator identified tallure ————	11:15 9 / 21 / 2020
17.b Local time operator resources arrived on site Hou	12:07 9 / 21 / 2020

PART B - ADDITIONAL LOCATION INFORMATION
1. Was the Incident on Federal land? Yes No
2. Location of Incident: (select only one) Degrator-controlled property
☑ Public property
☐ Private property
Utility Right-of-Way / Easement
3. Area of Incident: (select only one)
✓ Underground Specify: ☐Under soil ☐ Under a building ☑ Under pavement ☐ Exposed due to excavation ☐ In underground enclosed space (e.g., vault) ☐ Other
Depth-of-Cover (in):
Aboveground Specify: Typical aboveground facility piping or appurtenance (e.g. valve or regulator station, outdoor meter set) Overhead crossing In or spanning an open ditch In other enclosed space Other
☐ Transition Area Specify: ☐Soil/air interface ☐Wall sleeve ☐ Pipe support or other close contact area ☐ Other
4. Did Incident occur in a crossing?

PART C - ADDITIONAL FACILITY INFORMATION
1. Indicate the type of pipeline system: ☐ privately owned ☐ municipally owned ☑ investor owned ☐ cooperative ☐ Other ☐ Specify:
2. Part of system involved in Incident: (select only one) X Main
3. When "Main" or "Service" is selected as the "Part of system involved in Incident" (from PART C, Question 2), provide the following: *3.a Nominal diameter of pipe (in): 2.00
*3.b Pipe specification (e.g., API 5L, ASTM D2513): Unknown 3.c Pipe manufacturer: or Unknown 3.d Year of manufacture: or Unknown
4. Material involved in Incident: ☐ Steel ☐ Cast/Wrought Iron ☐ Ductile Iron ☐ Copper ☒ Plastic ☐ Reconditioned Cast Iron ☐ Unknown ☐ Other ➡ Specify:
4.a. If Steel ⇒ Specify seam type: or ☐ None or ☐ Unknown
4.b. If Steel ⇒ Specify wall thickness (inches):/ or ☐ Unknown
4.c. If Plastic ⇒ Specify type: Polyvinyl Chloride (PVC) Polyethylene (PE) Cross-linked Polyethylene (PEX) Polybutylene (PB) Polypropylene (PP) Acrylonitrile Butadiene Styrene (ABS) Polyamide (PA) Cellulose Acetate Butyrate (CAB) Other Unknown
4.d. If Plastic ⇒ Specify Standard Dimension Ratio (SDR): or wall thickness: or ⊠Unknown
4.e. If Polyethylene (PE) is selected as the type of plastic in PART C, Question 4.c ⇔ Specify PE Pipe Material Designation Code (i.e., 2406, 3408, etc.) PE or ☑ Unknown
5. Type of release involved: (select only one) ☐ Mechanical Puncture Approx. size: in. (axial) by in. (circumferential) ☐ Leak Select Type: ☐ Pinhole ☐ Crack ☐ Connection Failure ☐ Seal or Packing ☐ Other ☐ Rupture Select Orientation: ☐ Circumferential ☐ Longitudinal ☐ Other Approx. size: in. (widest opening) by in. (length circumferentially or axially) ☐ Other *Describe: Spartanburg water damaged a 2" Plastic Gas Main

PART D - ADDITIONAL CONSEQUENCE INFORMATION			
1. Class Location of Incident: (select only one) Class 1 Location Class 2 Location Class 3 Location Class 4 Location			
2. Estimated Property Damage :			
2.a Estimated cost of public and non-Operator private property damage	\$		
2.b Estimated cost of Operator's property damage & repairs \$ 967			
2.c Estimated cost of Operator's emergency response	2.c Estimated cost of Operator's emergency response \$		
2.d Estimated other costs \$			
Describe:			ı
2.e Total estimated property damage (sum of above)	\$	967	
Cost of Gas Released			
2.f Estimated cost of gas released \$			
S. Estimated number of customers out of service: 3.a Commercial entities			-
3.b Industrial entities			
3.c Residences 54			

PART E - ADDITIONAL (OPERATING INFORMATION			
Estimated pressure at:	the point and time of the Incident (ps	sig):		60
2. Normal operating press	sure at the point and time of the Incid	dent (psig):		60
3. Maximum Allowable O	perating Pressure (MAOP) at the po	int and time of the li	ncident (psig)):
X Pressure did	on the system relating to the Incider not exceed MAOP eeded MAOP, but did not exceed 11 eeded 110% of MAOP			
5. Was a Supervisory Co	ntrol and Data Acquisition (SCADA)-	-based system in pla	ace on the pip	peline or facility involved in the Incident?
Yes 🖒 5.a W	as it operating at the time of the Inc	cident?	∐Yes	□No
5.b V	Vas it fully functional at the time of th	e Incident?	Yes	□No
	oid SCADA-based information (such tion of the Incident?	as alarm(s), alert(s)	, event(s), an	d/or volume or pack calculations) assist with the
	Did SCADA-based information (such mation of the Incident?	as alarm(s), alert(s)	, event(s), an	nd/or volume calculations) assist with the
6. How was the Incident in	nitially identified for the Operator? (select only one)		
	formation (such as alarm(s), alert(s), at or Other Pressure or Leak Test	event(s), and/or vol	lume or pack	calculations)
Controller				l, including contractors
Air Patrol Notification from F	htio			or its contractor cy Responder
	Third Party that caused the Incident	Other	om Emergem	cy responder
6.a If "Controller", "Lo	_	contractors", "Air Pa	trol", or "Grou	and Patrol by Operator or its contractor" is selected
_	_	r working for the Op	erator	
		oller(s) or control roc	om issues we	re the cause of or a contributing factor to the
Incident? (select only	•	Vor controller actions	e hae not vot	been completed by the operator (Supplemental
Report required)	investigation of the control room and	roi controller actions	s nas not yet	been completed by the operator (Supplemental
	ty was not monitored by a controller(
	ator did not find that an investigation xplanation for why the operator did r		actions or cor	ntrol room issues was necessary due to:
(provide arre	spandor for why the operator and t	iot investigatey		
Yes, Specify	investigation result(s): (select all the	at apply)		
Inves	• , ,		nours of servi	ce (while working for the Operator) and other
☐ Inves	stigation did NOT review work sched			of service (while working for the Operator) and other
factors as	sociated with fatigue (provide an ex	kplanation for why n	ot)	
Inves	stigation identified no control room is	sues		
	stigation identified no controller issue			
	stigation identified incorrect controlle			
	itigation identified that fatigue may h	ave affected the cor	ntroller(s) inv	olved or impacted the involved controller(s)
response Inves	stigation identified incorrect procedu	res		
	stigation identified incorrect control re		ration	
				perations, procedures, and/or controller response
inves	stigation identified areas other than t	nose apove ⇒ Des	scribe:	
				1

PART F - DRUG & ALCOHOL TESTING INFORMATION	
As a result of this Incident, were any Operator employees tested under & Alcohol Testing regulations?	er the post-accident drug and alcohol testing requirements of DOT's Drug
No No	
Yes 🖒 1.a Specify how many were tested:	
1.b Specify how many failed:	
As a result of this Incident, were any Operator contractor employees t DOT's Drug & Alcohol Testing regulations? No	ested under the post-accident drug and alcohol testing requirements of
Yes 🖈 2.a Specify how many were tested:	
2.b Specify how many failed:	

PART G - APPARENT GAUSE	Select only one box from PART G in the shaded column on the left representing the APPARENT Cause of the Incident, and answer the questions on the right. Describe secondary, contributing, or root causes of the Incident in the narrative (PART H).
G1 - Corresion Failure - *only on	e sub-cause can be picked from shaded left-hand column
External Corrosion	aub-cause can be picked from shaded left-hand column 1. Results of visual examination:
a ana	Fusion Bonded Epoxy Coal Tar Asphalt Polyolefin Extruded Polyethylene Field Applied Epoxy Cold Applied Tape Paint Composite None Other Unknown
☐ Internal Corrosion	7. Results of visual examination: Localized Pitting General Corrosion Not cut open Other 8. Cause of corrosion: (select all that apply) Corrosive Commodity Water drop-out/Acid Microbiological Erosion Other
	9. The cause(s) of corrosion selected in Question 8 is based on the following; (select all that apply) Field examination Determined by metallurgical analysis Other 10. Location of corrosion: (select all that apply)
	Low point in pipe Lelbow Drop-out Other 11. Was the gas/fluid treated with corrosion inhibitors or biocides? Yes No
	12. Were any liquids found in the distribution system where the Incident occurred? Yes No

Complete the following if any Corrosion Failure sub-cause is selected AND the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser.		
13. Date of the most recent Leak Survey conducted: / /		
14. Has one or more pressure test been conducted since original construction at the point of the Incident? ☐ Yes ➡ Most recent year tested: Test pressure (psig): ☐ No		
G2 — Natural Force Damage — *only one sub-cause can be picked from shaded left-handed column		
Earth Movement, NOT due to Heavy Rains/Floods	1. Specify: Earthquake Subsidence Landslide Other	
Heavy Rains/Floods 2. Specify: Washouts/Scouring Flotation Mudslide Other		
Lightning 3. Specify: Direct hit Secondary impact such as resulting nearby fires		
☐ Temperature	4. Specify: Thermal Stress Frost Heave Frozen Components Other	
High Winds		
Other Natural Force Damage 5. Describe:		
Complete the following if any Natural Force Damage sub-cause is selected.		
6. Were the natural forces causing the Incident generated in conjunction with an extreme weather event? Yes No 6.a. If Yes, specify: (select all that apply) Hurricane Tropical Storm Tornado Other		

Excavation Damage by Operator (First Party)	
Excavation Damage by Operator's Contractor (Second Party)	
Excavation Damage by Third Party	
Activity	Complete the following ONLY IF the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser. 1. Date of the most recent Leak Survey conducted://
complete the following if Excavation Damage by Third. Did the operator get prior notification of the excavation 3.a If Yes, Notification received from: (select all that	n activity? XYes No
Do you want PHMSA to upload the following information. Right-of-Way where event occurred: (select all that approximately property): □ City Street □ State For Private ⇒ Specify: □ Private Landowner □ Pipeline Property/Easement Power/Transmission Line Railroad Dedicated Public Utility Easement Federal Land Data not collected Unknown/Other	oply) Highway County Road CInterstate Highway Cother
. Type of excavator: (select only one) Contractor County Developed State Utility	er Farmer Municipality Occupant Data not collected Unknown/Other
. Type of excavation equipment: (select only one) Auger Backhoe/Trackhoe Explosives Farm Equipment Probing Device Trencher	Boring Drilling Directional Drilling Grader/Scraper Hand Tools Milling Equipment Vacuum Equipment Data not collected Unknown/Other
This CGA-DIRT section continued on next page with Que	Curb/Sidewalk Electric Engineering/Surveying Landscaping C Transit Authority Steam Traffic Sign Building Demolition Fencing Milling Road Work Street Light Water Water Water Waterway Improvement

9. Was the One-Call Center notified? XYes No					
9.a If Yes, specify ticket number: 2008311512					
9.b If this is a State where more than a single One-Call Center exists, list the name of the One-Call Center notified:					
		_	_		
10. Type of Locator: Utility Owner X Contractor	or Locator	Data not collected	Unknown/Other		
11. Were facility locate marks visible in the area of excavation?]No ⊠Yes	Data not collected	Unknown/Other		
12. Were facilities marked correctly?] _{No} 🛛 Yes	Data not collected	Unknown/Other		
13. Did the damage cause an interruption in service?	13. Did the damage cause an interruption in service?				
13.a If Yes, specify duration of the interruption: 6.00	hours				
14. Description of the CGA-DIRT Root Cause (select only the one predo a choice, the one predominant second level CGA-DIRT Root Cause as to	ominant first level well):	CGA-DIRT Root Cause a	and then, where available as		
One-Call Notification Practices Not Sufficient: (select only	y one)				
No notification made to the One-Call Center	,				
Notification to One-Call Center made, but not suf	fficient				
Locating Practices Not Sufficient: (select only one) Facility could not be found/located					
Facility marking or location not sufficient					
Facility was not located or marked					
☐ Incorrect facility records/maps					
Excavation Practices Not Sufficient: (select only one)					
Excavation practices not sufficient (other)					
Failure to maintain clearance Failure to maintain the marks					
Failure to support exposed facilities					
Failure to use hand tools where required Failure to verify location by test-hole (pot-holing)					
Improper backfilling					
One-Call Notification Center Error					
Abandoned Facility					
Deteriorated Facility					
Previous Damage					
Data Not Collected					
Other / None of the Above (explain)					
		-			

G4 – Other Outside Force Dam	age - only one sub-cause can be selected from the shaded left-hand column
Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Incident	
Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation	Vehicle/Equipment operated by: (select only one) Operator Operator's Contractor Third Party Third Party
Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring	2. Select one or more of the following IF an extreme weather event was a factor: Hurricane Tropical Storm Tornado Heavy Rains/Flood Other Other
Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation	
Electrical Arcing from Other Equipment or Facility	
Previõuŝ Mechanical Damage NOT Related to Excavation	Complete the following ONLY IF the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser. 3. Date of the most recent Leak Survey conducted://
☐ Intentional Damage	5. Specify: Vandalism Theft of transported commodity Theft of equipment Other
Other Outside Force Damage	6. Describe:

G5 - Pipe, Weld, or Joint Failure - *only one sub-cause can be selected from the shaded left-hand column					
Body of Pipe	1. Specify: Dent Gouge Bend Arc Burn Crack				
Butt Weld	2. Specify: Pipe Fabrication Other				
Fillet Weld	3. Specify: Branch Hot Tap Fitting Repair Sleeve				
☐ Pipe Seam	4. Specify: LF ERW HF ERW Flash Weld DSAW SAW Spiral				
Threaded Metallic Pipe					
Mechanical Fitting	5. Specify the mechanical fitting involved: Stab type fitting				

Compression Fitting	13. Fitting type:
-∏Fusion Joint	19. Specify: Butt, Heat Fusion Butt, Electrofusion Saddle, Heat Fusion Socket, Electrofusion Other Socket, Heat Fusion Socket, Electrofusion Other Specify the two materials being joined: 22. Specify the two materials being joined: 22.a First material being joined: Polyvinyl Chloride (PVC) Polyethylene (PE) Polypropylene (PP) Acrylonitrile Butadiene Styrene (ABS) Polyamide (PA) Cellulose Acetate Butyrate (CAB) Other Specify: 22.b Second material being joined: Polyvinyl Chloride (PVC) Polyethylene (PE) Polypropylene (PVC) Polyethylene (PE) Polyothylene (PE) Polyothylene (PEX) Polybutylene (PB) Polypropylene (PP) Acrylonitrile Butadiene Styrene (ABS) Polyamide (PA) Cellulose Acetate Butyrate (CAB) Other Specify: Cellulose Acetate Butyrate (CAB)
Other Pipe, Weld, or Joint Failure	23. Describe:

Complete the following if any Pipe, Weld, or Joint Fallure sub-cause is selected.					
24. Additional Factors: (select all that apply) Lamination Buckle Other	Dent Gouge Pipe Bend Arc Burn Crack Lack of Fusion Wrinkle Misalignment Burnt Steel				
25. Was the Incident a result of: ☐Construction defect, specify: ☐Poor workmanship ☐Procedure not followed ☐Poor construction/installation procedures					
Material defect, specify: ⇒ Long seam Dother					
☐Design defect☐Previous damage					
-	ducted since original construction at the point of the Incident?				
Yes ⇒ Most recent year tested: Test pressure (psig): No					
C6 Équipment Fallure	84 4 889 V V E 84 H				
G6 - Equipment Failure-*only	one sub-cause can be selected from the shaded left-hand column				
Malfunction of Control/Relief Equipment	1. Specify: (select all that apply) Control Valve Instrumentation SCADA Communications Block Valve Check Valve Relief Valve Power Failure Stopple/Control Fitting Pressure Regulator Other				
Threaded Connection Failure	Specify: Pipe Nipple Valve Threads Threaded Pipe Collar Threaded Fitting Other				
Non-threaded Connection Failure	3. Specify: O-Ring Gasket Other Seal or Packing Other				
□Valve	4. Specify: Manufacturing defect Other				
	4.a Valve type:				
>	4.b Manufactured by:				
# 16.7	4.c Year manufactured:				
☐ Other Equipment Fallure	5. Describe:				

G7 - Incorrect Operation - *only one sub-cause can be selected from the shaded left-hand column						
Damage by Operator or Operator's Contractor NOT Related to Excavation and NOT due to Motorized Vehicle/Equipment Damage						
Valve Left or Placed in Wrong Position, but NOT Resulting in an Overpressure						
Pipeline or Equipment Overpressured						
Equipment Not Installed Properly						
Wrong Equipment Specified or Installed						
Other Incorrect Operation	1. Describe:					
4.a If Yes, were the individuals perform Yes, they were qualified for DNo, but they were perform	enormal operation as a covered as a covered ing the task(s) ing the task(s) ing the task(s)	ons or emergencies) I task in your Operator Qualification Program?				
G8 - Other Incident Cause - *only one sub-cause can be selected from the shaded left-hand column						
Miscēllāneous	1. Describe:					
Unknown	2. Specify:	Investigation complete, cause of Incident unknown Still under investigation, cause of Incident to be determined* (*Supplemental Report required)				

PART H - NARRATIVE DESCRIPTION OF THE INCIDENT	(Attach additional sheets as nece	ssary)			
Spartanburg water company damaged a 2" plastic main while installing a sewer. The use of mechanized equipment in the tolerance zone & excavator failed to support and protect facilities.					
		Í			
PART I - PREPARER AND AUTHORIZED SIGNATURE					
Christopher Ransome		704-731-4680			
Preparer's Name (type or print)		Preparer's Telephone Number			
Gas Regulator Compliance Analyst II Preparer's Title (type or print)					
christopher.ransome@duke-energy.com					
Preparer's E-mail Address		Preparer's Facsimile Number			
Farris Berry	10/27/2020	704-731-4618			
Authorized Signer	Date	Authorized Signer Telephone Number			
Manager- Pipeline Safety		Farris.Berry@duke-energy.com			
Authorized Signer's Title		Authorized Signer's E-mail Address			